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<p>(54) Title: A METHOD FOR ACCELERATING CRYPTOGRAPHIC OPERATIONS ON ELLIPTIC CURVES</p> <p>(57) Abstract</p> <p>This invention provides a method for accelerating multiplication of an elliptic curve point $Q(x,y)$ by a scalar k, the method comprising the steps of selecting an elliptic curve over a finite field F_q where q is a prime power such that there exists an endomorphism ψ, where $\psi(Q) = \lambda Q$ for all points $Q(x,y)$ on the elliptic curve; and using smaller representations k_i of the scalar k in combination with the mapping ψ to compute the scalar multiple of the elliptic curve point Q.</p>			
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